

American Association
of Colleges of Nursing

1991-1992

Enrollment and Graduations

*in Baccalaureate and Graduate
Programs in Nursing*

INSTITUTIONAL DATA SYSTEMS

1991-1992

ENROLLMENT AND GRADUATIONS

IN

Baccalaureate and Graduate Programs in Nursing

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NOTE: DATA ON RESPONDENT SCHOOLS ARE PRESENTED IN THIS REPORT BY PROGRAMS. SCHOOLS MAY HAVE ONE OR MORE PROGRAMS. ADDITIONALLY, PROGRAMS REPORTED MAY CHANGE OVER TIME. THE TOTAL NUMBER OF SCHOOLS REPRESENTING EACH DATA SET IS PRESENTED AS IS THE NUMBER OF PROGRAMS.

BACKGROUND

The Data Bank Project was established in 1978 by the American Association of Colleges of Nursing (AACN) for the purpose of developing a database that could support policy research and decision making for the organization and its members. The priority at that time was to develop and refine a questionnaire for use in annual surveys to gather information on salaries for faculty, administrators, and deans of AACN member institutions. This project established a database that became the nucleus of the AACN Institutional Data System (IDS). Subsequently in 1982, the database was expanded to include information collected annually on enrollment and graduations.

In the spring of 1988, concern over declining enrollment in schools of nursing and the alarming shortage of registered nurses led the AACN Board of Directors to authorize an expansion of the annual survey of enrollment and graduations to include non-AACN member institutions with baccalaureate and higher degree programs.

This is the eleventh report on enrollment and graduations by the Institutional Data System, the fourth to include enrollment and graduations for both member and nonmember baccalaureate and higher degree programs in nursing. Data analysis includes current enrollment and graduations as well as changes over two- and five-year periods.

METHODOLOGY

Survey Questionnaires

Seven questionnaires were developed to gather information on: (1) the institution within which the baccalaureate and higher degree nursing programs were located; (2) enrollment; (3) graduations; (4) the dean's salary and related information; (5) full-time faculty salaries and related information; (6) administrative nurse faculty salaries; and (7) faculty separations. Definitions for the Institutional Data, Enrollment, and Graduation surveys can be found in Appendix A.

Survey forms were mailed to 617 (member = 424, nonmember = 193) baccalaureate and higher degree programs in nursing on September 3-5, 1991. Telephone calls were made to the institutions that had not responded by the October 15 deadline.

Quality of Data

The data presented in IDS reports are based on actual counts and estimation procedures are not used. Therefore, rigorous data cleaning procedures were followed before data sets were analyzed.

Each questionnaire was edited twice for accuracy and completeness when it was received. Telephone calls were made to respondents in order to clarify obvious discrepancies in the data or to obtain missing information. Institutional, dean and administrative faculty salary; and faculty separation data were entered into the computer directly from the data collection forms by the data coordinator. Enrollment, graduation, and faculty salary data forms were scanned directly into ASCII files by an optical mark reader. Frequency distributions were obtained on all variables and inspected for outliers and inconsistent data. In addition, multiple consistency and reliability checks were conducted. Telephone calls were made to the institutions in order to resolve inconsistencies and discrepancies in the data. However, if the problems could not be resolved to the research director's satisfaction, these data were excluded from the analysis.

All data were kept in locked file cabinets in the data coordinator's office. The relational database Paradox 3.5 was used to manage the data and the statistical software package SPSS/PC+ V4.0 was used to analyze the data. SAS 6.04 was used to create the linear regression models used in the five-year tables.

Data on Generic Baccalaureate Enrollment

Enrollment data are carefully examined from year-to-year and school-by-school in order to detect any unusual variations in the figures reported by each school. Upon examination of the 1991-92 enrollment data compared with the 1990-91 data set, it appears that a proportion of institutions included prenursing students in their 1991-91 enrollment figures. Therefore, in an effort to report the most accurate data possible, two- and five-year generic baccalaureate enrollment changes will be omitted from this year's report. However, two- and five-year cohort tables for RN baccalaureate, master's and doctoral enrollment will be presented.

Response Rates

Of the 617 survey forms mailed, five schools reported discontinuation of their nursing program; one of these schools merged with another institution to form a single program. An additional school left a consortium and started an independent program. Five hundred eleven Institutional, 502 Enrollment and 503 Graduation questionnaires were returned, yielding overall response rates of 83 percent for the Institutional survey and 82 percent for the Enrollment and Graduation surveys (Table 1). The response rate for member programs was 93 percent for the Institutional and 92 percent for the Enrollment and Graduation surveys; for nonmember programs the rates were 61.0 percent, 60.0 percent and 60.5 percent, respectively. The list of institutions that provided data for the Enrollment and/or Graduation surveys may be found in Appendix B.

Table 1. Response Rates for Institutional, Enrollment, and Graduation Surveys for Member (N=423) and Nonmember (N=190) Institutions

Institution	Surveys		
	Institutional Number (%)	Enrollment Number (%)	Graduation Number (%)
Member	395 (93.4)	388 (91.7)	388 (91.7)
Nonmember	<u>116</u> (61.0)	<u>114</u> (60.0)	<u>115</u> (60.5)
Total	511 (83.4)	502 (81.9)	503 (82.0)

RESULTS

A. Description of the Survey Population

1. Institutional Characteristics

Table 2 summarizes the institutional characteristics of member and nonmember respondents. Fifty-six percent of the member programs surveyed were located in public institutions, while 44.8 percent of the nonmember programs were located in private religious institutions. Almost 88 percent of nonmembers described their programs as departments or divisions within an institution, whereas member programs were almost equally distributed between departments or divisions (50.0%) and autonomous schools or colleges (48.0%). Eighty-one (20.5%) member respondents were located in academic health centers. More than one-third of both member and nonmember schools were classified as Comprehensive I institutions.

2. Program Characteristics

Information was collected on all nursing programs offered in the institutions surveyed (Table 3). Almost 15 percent of respondents to this survey of baccalaureate and higher degree programs in nursing also offer associate degree programs and a few prepare licensed practical nurses or diploma nurses (0.6 % and 0.2%, respectively). Clearly many institutions offer more than one nursing education program. These data indicate the myriad of options offered to the prospective student desiring entry level nursing preparation or an extension of their basic education.

Data were also collected on the type of doctoral degrees conferred by the 54 institutions offering doctoral programs in nursing (Table 4). The PhD is by far the most frequently awarded degree. Four institutions award two types of doctoral degrees.

Given that nursing enrollment is linked with availability of programs, data were collected on plans to implement new programs and plans to phase out existing programs (Table 5). Of the 184 programs being planned, 51 (27.7%) are at the baccalaureate level, 106 (57.6%) are master's programs and 25 (13.6%) are at the doctoral level. Only seven baccalaureate level programs reported plans to phase out.

Table 2.

Institutional Characteristics of Member and Nonmember Respondents

Characteristic	Member (N=395)		Nonmember (N=116)		Total (N=511)	
	Number	%	Number	%	Number	%
Type of Institution						
Public	222	56.2	48	41.4	270	52.8
Private Secular	66	16.7	16	13.8	82	16.1
Private Religious	104	26.3	52	44.8	156	30.5
Consortium	3	0.8	0		3	0.6
Parent Institution						
University	280	70.9	48	41.4	328	64.2
Four-year College	109	27.6	68	58.6	177	34.6
Other	6	1.5	0		6	1.2
Description of Program						
Department/Division	195	50.0	100	87.7	295	58.5
Autonomous	187	48.0	10	8.8	197	39.1
Freestanding	4	1.0	4	3.5	8	1.6
Other	4	1.0	0		4	0.8
Not Reported	(5)		(2)		(7)	
Part of Academic Health Center						
Yes	81	20.5	0		81	15.9
No	314	79.5	116	100.0	430	84.1
Carnegie Classification						
Comprehensive I	155	39.2	50	43.1	205	40.1
Comprehensive II	38	9.6	20	17.2	58	11.3
Doctorate-Granting I	26	6.6	0		26	5.1
Doctorate-Granting II	27	6.8	2	1.7	29	5.7
Liberal Arts I	9	2.3	3	2.6	12	2.4
Liberal Arts II	51	12.9	33	28.5	84	16.4
Research I	40	10.1	1	0.9	41	8.0
Research II	15	3.8	0		15	2.9
Specialized	29	7.4	2	1.7	31	6.1
Other	2	0.5	3	2.6	5	1.0
Unknown	3	0.8	2	1.7	5	1.0

Table 3.

Number and Percentage of Member and Nonmember Status by Programs Offered in Institutions

Characteristic	Member (N=395) Number (%)	Nonmember (N=116) Number (%)	Total (N=511) Number (%)
Licensed Practical Nursing	3 (0.8)	0	3 (0.6)
LPN to Associate Degree	4 (1.0)	1 (0.9)	5 (1.0)
LPN to BSN	44 (11.1)	18 (15.5)	62 (12.1)
Accelerated LPN to BSN	2 (0.5)	0	2 (0.4)
LPN to MSN	1 (0.3)	0	1 (0.2)
Diploma	1 (0.3)	0	1 (0.2)
Associate Degree	53 (13.4)	21 (18.1)	74 (14.5)
Generic (Basic) Baccalaureate	332 (84.1)	71 (61.2)	403 (78.9)
RN Baccalaureate	308 (78.0)	99 (85.3)	407 (79.7)
Accelerated RN to BSN	109 (27.6)	18 (15.5)	127 (24.9)
Accelerated BSN for nonnursing college graduates	40 (10.1)	3 (2.6)	43 (8.4)
RN to BSN External Degree	6 (1.5)	1 (0.9)	7 (1.4)
BSN Outreach	1 (0.3)	0	1 (0.2)
MSN	209 (52.9)	14 (12.1)	223 (43.6)
MA in nursing or MN	6 (1.5)	1 (0.9)	7 (1.4)
Accelerated BSN to MSN	16 (4.1)	2 (1.7)	18 (3.5)
RN to MSN	66 (16.7)	0	66 (12.9)
Accelerated RN to MSN	3 (0.8)	0	3 (0.6)
RN to MSN for RN college graduates with nonnursing majors	5 (1.3)	0	5 (1.0)
MSN for nonnursing college graduates	8 (2.0)	1 (0.9)	9 (1.8)
Accelerated MSN for nonnursing college graduates	3 (0.8)	0	3 (0.6)
Master of Education (M Ed)	1 (0.3)	0	1 (0.2)
MSN, MS, MN, or MNA/MBA	33 (8.4)	2 (1.7)	35 (6.8)
MSN/MPH	7 (1.8)	0	7 (1.4)
MSN/MHA	1 (0.3)	0	1 (0.2)
MSN/HSA	1 (0.3)	0	1 (0.2)
Nursing Doctorate (ND)	3 (0.8)	0	3 (0.6)
Doctoral	54 (13.7)	0	54 (10.6)
Accelerated Doctoral	1 (0.3)	0	1 (0.2)
Postdoctoral	8 (2.0)	0	8 (1.6)

Table 4. Type of Degrees Conferred by Institutions Offering Doctoral Programs in Nursing

Type of Degree	Member (N=54) Number (%)	
DSN	1	(1.9)
DNS	4	(7.4)
Generic ND	3	(5.6)
DNSc	5	(9.6)
PhD	44	(81.5)
EdD	1	(1.9)

* Four institutions award two types of doctoral degrees

Table 5.

Member and Nonmember Respondents by Program Changes

Program Changes	Member Number	Nonmember Number	Total
Programs Planned:	N = 156	N = 28	N = 184
LPN to BSN	14	1	15
Associate degree	2	0	2
Generic Baccalaureate	3	4	7
RN Baccalaureate	2	0	2
Accelerated RN to BSN	6	2	8
Accelerated BSN for nonnursing college graduates	15	2	17
RN to BSN External Degree	2	0	2
MSN	30	10	40
Accelerated BSN to MSN	7	1	8
RN to MA	1	0	1
RN to MSN	20	3	23
Accelerated RN to MSN	1	0	1
MSN for nonnursing college graduates	6	0	6
Accelerated MSN for nonnursing college graduates	3	0	3
MSN to MBA	9	5	14
MN to MBA	1	0	1
MSN to MPH	3	0	3
MSN to MHA	2	0	2
MSN to MPA	3	0	3
Nursing Doctorate (ND)	6	0	6
Doctoral	19	0	19
MSN Outreach Program	1	0	1
Programs Phasing Out:	N = 9	N = 2	N = 11
LPN	0	1	1
LPN to BSN	0	1	1
Associate degree	3	0	3
Generic Baccalaureate	3	0	3
RN Baccalaureate	3	0	3

B. Enrollment and Graduations

1. Fall 1991 Enrollment

Data on enrollment are summarized in Table 6. Students enrolled in baccalaureate nursing education programs totaled 107,233. The ratio of full-time to part-time generic baccalaureate students is 6.5:1; the ratio for RN baccalaureate students is 0.24:1. On the graduate level, master's and doctoral enrollment totaled 23,820 and 2,709, respectively. Seventy-six percent of master's students were part-time enrollees.

Table 6. Fall 1991 Enrollment by Type of Degree and Student Status
(N = 502 Respondent Institutions)

Degree	Number of Programs Reporting	Student Status Full-Time	Student Status Part-time	Total
Baccalaureate				
Generic	391	64,378	9,862	74,240
Student Status Unknown	<u>5</u>			<u>1,531</u>
Generic SUBTOTAL	396	64,378	9,862	75,771
RN	459	6,034	24,718	30,752
Student Status Unknown	<u>5</u>			<u>295</u>
RN SUBTOTAL	464	6,034	24,718	31,047
Combined*	<u>2</u>	<u>354</u>	<u>61</u>	<u>415</u>
Total Baccalaureate	490	70,766	34,641	107,233
Graduate				
Master's	217	5,715	18,087	23,802
Student Status Unknown	<u>1</u>			<u>18</u>
Total	218			23,820
Doctoral	54	1,091	1,618	2,709
Generic				
Master's for Nonnursing College Graduates	12	465	115	580
Nursing Doctorate	3	86	48	134
Postdoctoral	4	16	5	21

* Two institutions did not report separate generic and RN baccalaureate enrollment data

2. Information About Applications to the Fall 1991 Class and Qualified Applications Not Accommodated by Nursing Programs

Information about applications to the Fall 1991 class and the number of applications (*not* applicants) not accommodated by various nursing programs is presented in Table 7. Qualified applications not accommodated in generic baccalaureate and doctoral programs were 3,246 and 119, respectively.

Table 7. Qualified Applications Accepted and Enrolled, Number of Vacant Seats, and Qualified Applications Not Accommodated by Type of Program, Fall 1991

Applications Programs Reporting =	Baccalaureate		Combined Gen. & RN* 63	Master's 185	Doctoral 47
	Generic 291	RN 296			
Seats Available	15,875	3,579	2,741	2,562	277
Programs with no Limit on Available Seats	67	177	26	128	18
Completed Applications Received	39,790	9,918	9,895	10,565	819
Applications Meeting Admission Criteria	28,789	8,773	7,172	8,607	687
Qualified Applications Accepted	24,486	8,446	6,373	8,077	518
Enrolled and Registered					
Programs with Seat Limitations	14, 818	2,407	2, 435	1, 874	227
Programs with no Seat Limitations	(3,833)	(4,625)	(1,959)	(4,611)	(179)
Vacant Seats**	1,057	1,172	306	688	50
Qualified Applications not Accepted	4,303	327	799	530	169
Qualified Applications not Accommodated***	3,246	0	493	0	119

* Thirty-seven institutions did not report separate generic and RN baccalaureate data

** Number of seats available minus number enrolled and registered in programs with seat limitations

*** Qualified applications not accepted minus vacant seats

The most important reason for not accepting all qualified applicants is presented in Table 8. In general, filled admission seats was the most frequent reason stated, followed by insufficient number of faculty, and insufficient clinical or classroom space.

Table 8. Most Important Reason for Not Accepting All Qualified Applicants by Type of Program, Fall 1991

	Number of Programs Not Accepting All Qualified Students =	Gen and RN Baccalaureate	Master's	Doctoral
Reason		Number (%)	Number (%)	Number (%)
Admissions Seats Filled	49 (47.1)	4 (26.7)	7 (70.0)	
Insufficient Number of Faculty	37 (35.6)	6 (40.0)	2 (20.0)	
Insufficient Clinical/Classroom Space	13 (12.5)	3 (20.0)	0	
Other	5 (4.8)	2 (13.3)	1 (10.0)	
Not Reported	56	24	8	

3. 1990-1991 Graduations

Graduation data are summarized in Table 9. Students graduating with the baccalaureate from September 1, 1990 to August 31, 1991 totaled 26,852.

Table 9. Graduations From September 1, 1990 to August 31, 1991 by Type of Degree
(N = 503 Respondents)

Degree	Number of Programs Reporting	Number of Graduates
Baccalaureate		
Generic	374	16,663
RN	445	8,770
Combined*	20	<u>1,419</u>
Total	487	26,852
Graduate		
Master's	212	6,141
Doctoral	54	351
Generic		
Generic Master's**	6	62
Nursing Doctorate	3	23
Postdoctoral	3	2

* Twenty institutions did not report separate generic and RN baccalaureate graduation data

** MSN for nonnursing college graduates

4. Enrollment and Graduation Changes, 1990 and 1991

Data from member and nonmember schools reporting for both 1990 and 1991 were examined for changes in enrollment (Table 10). Enrollment in RN baccalaureate programs decreased by 7.0 percent. However, enrollment in master's, doctoral, and generic master's programs increased.

Graduations from master's programs increased slightly (4.8%). Of note, however, is the dramatic increase in generic master's graduations (44.2%). Doctoral student graduations increased by 21 percent.

Table 10. Enrollment and Graduation Changes in the Same Schools Reporting in Both 1990-1991 and 1991-1992 by Program Type

Program Type		Number of Programs	1990-91 Students	1991-92 Students	Percent Change
Baccalaureate					
RN					
	Full-time	372	5,364	5,477	2.11
	Part-time	386	<u>23,333</u>	<u>21,217</u>	-7.37
	TOTAL		28,697	26,694	-6.98
	Graduates*	400	8,044	(7,943)	
Graduate					
Master's					
	Full-time	192	5,391	5,657	4.93
	Part-time	210	<u>16,946</u>	<u>17,615</u>	3.95
	TOTAL		22,337	23,272	4.01
	Graduates	205	5,730	6,005	4.80
Doctoral					
	Full-time	53	1,106	1,067	-3.53
	Part-time	49	<u>1,523</u>	<u>1,613</u>	5.91
	TOTAL		2,629	2,680	1.94
	Graduates	53	287	347	20.91
Postdoctoral					
	Full-time	4	17	16	-5.88
	Part-time	<u>2</u>	<u>0</u>	<u>5</u>	
	TOTAL	6	17	21	23.53
	Graduates	3	0	2	
Generic Master's**					
	Full-time	9	320	453	41.56
	Part-time	7	<u>91</u>	<u>115</u>	26.37
	TOTAL		411	568	38.20
	Graduates	6	43	62	44.19

* Twenty schools that did not report separate generic and RN graduation data in 1991-92 are not included, therefore accurate two-year comparisons cannot be made.

** MSN and accelerated MSN for nonnursing college graduates

5. Gender and Race/Ethnicity of Enrolled Students and Graduates

Information was collected on gender of students enrolled within each degree program (Table 11). Almost 10 percent (9.5%) of the generic (programs reporting=384) and 5.2 percent of the RN (programs reporting=452) baccalaureate students were male. The generic master's (master's for nonnursing college graduates) (program reporting=11) contained the largest proportion of males enrolled (16.2%). Race and ethnic background are summarized in Table 12. Students classified as white are by far the largest proportion enrolled in nursing education programs nationally. American Indians or Alaskan Natives represent 1.1 percent or less of the total number enrolled for each degree category. Hispanic students represent 2.9 percent of baccalaureate, 1.7 percent of master's, and 1.7 percent of doctoral students. Blacks represent the largest minority population in this national data set with 8.8 percent enrolled in generic baccalaureate programs and 7.4 percent enrolled in RN baccalaureate programs. This percentage diminishes in master's and doctoral programs (5.2% and 4.3%, respectively). Only one of the 14 reported postdoctoral students was classified as black. Non-resident alien students represent less than 1 percent of those enrolled in baccalaureate programs; however they represent 1.1 percent of master's and 2.6 percent of doctoral students. Tables 13 and 14 summarize information on gender and race/ethnicity of graduates.

Table 11. Type of Program by Gender of Students Enrolled, 1991-92

	Undergraduate			Graduate			Generic	
	Gen	RN	Total Bacc.*	Master's	Post Doct	Doct	Gen Mas	Gen ND
Programs Reporting=	384	452		214	53	4	11	3
Gender								
Female (%)	63,975 (90.5)	27,156 (94.8)	95,507 (91.8)	22,199 (95.7)	2,465 (95.3)	20 (95.2)	469 (83.8)	120 (89.6)
Male (%)	6,719 (9.5)	1,501 (5.2)	8,536 (8.2)	997 (4.3)	122 (4.7)	1 (4.8)	91 (16.2)	14 (10.4)
Not Reported	1,447	1,931	3,378	422			20	

* Fifteen institutions did not report separate generic and RN baccalaureate gender data

Table 12.

Type of Program by Race/Ethnicity of Students Enrolled and Number of Non-resident Alien Students Enrolled, 1991-92*

Race/Ethnicity	Undergraduate			Graduate			Generic	
	Gen	RN	Total Bacc.**	Master's	Doct	Post Doct	Gen Mas	Gen ND
Programs Reporting=	328	392	431	209	53	3	10	3
Asian or Pacific Islander (%)	1,970 (3.1)	474 (1.8)	2,815 (2.9)	572 (2.5)	67 (2.5)	0	12 (2.6)	6 (4.5)
Black, Non-Hispanic (%)	5,598 (8.8)	1,961 (7.4)	8,448 (8.8)	1,205 (5.2)	112 (4.3)	1 (7.1)	14 (3.0)	9 (6.7)
American Indian or Alaskan Native (%)	337 (0.5)	91 (0.3)	434 (0.5)	77 (0.3)	15 (0.6)	0	5 (1.1)	0
Hispanic (%)	1,793 (2.8)	692 (2.6)	2,779 (2.9)	387 (1.7)	45 (1.7)	0	5 (0.4)	5 (3.7)
White (%)	52,670 (83.1)	21,804 (82.5)	78,883 (81.9)	19,915 (86.1)	2,184 (83.0)	13 (92.9)	423 (92.1)	114 (85.1)
Non-resident Alien (%)	245 (0.4)	138 (0.5)	413 (0.4)	249 (1.1)	68 (2.6)	0	2 (0.4)	0
Unknown (%)	851 (1.3)	1,284 (4.9)	2,508 (2.6)	731 (3.1)	140 (5.3)	0	2 (0.4)	0
Not Reported	3,308	1,873	5,181	684	0	0	120	0

* Institutions that reported estimated data are excluded

** Twenty-three institutions did not report separate generic and RN baccalaureate race/ethnicity data

Table 13.

Type of Program by Gender of Graduates, 1990-91

Gender	Programs Reporting=	Undergraduate			Graduate			Generic	
		Gen	RN	Total Bacc.*	Master's	Doct	Post Doct	Gen Master's	ND
		350	414	408	193	54	3	6	2
Female		14,691	7,959	23,289	5,575	306	2	57	21
(%)		(92.8)	(95.2)	(93.6)	(95.0)	(96.5)	(100)	(91.9)	(91.3)
Male		1,137	399	1,585	294	11	0	5	2
(%)		(7.2)	(4.8)	(6.4)	(5.0)	(3.5)		(8.1)	(8.7)
Not Reported		256	325	581	272	34	0	0	0

* Seven institutions did not report separate generic and RN baccalaureate gender data

Table 14.

Type of Program by Race/Ethnicity of Graduates and Number of Non-Resident Alien Graduates, 1990-91*

Race/Ethnicity	Programs Reporting =	Undergraduate			Graduate			Generic	
		Gen	RN	Total Bacc.**	Master's	Post Doct	Doct	Gen Master's	ND
		334	396	450	185	54	3	5	2
Asian		337	144	544	112	10	0	0	0
(%)		(2.2)	(1.7)	(2.1)	(2.0)	(3.1)			
Black		1,128	613	1,911	260	11	0	0	5
(%)		(7.4)	(7.5)	(7.5)	(4.5)	(3.5)			(21.7)
Native American		72	31	112	13	0	0	0	0
(%)		(0.5)	(0.4)	(0.5)	(0.2)				
Hispanic		438	178	694	76	3	0	2	0
(%)		(2.9)	(2.2)	(2.7)	(1.3)	(0.9)		(3.3)	
White		12,788	6,770	21,327	5,081	282	2	59	18
(%)		(84.2)	(82.6)	(83.6)	(87.1)	(89.0)	(100)	(96.7)	(78.3)
Non-Resident Alien		40	18	68	40	11	0	0	0
(%)		(0.3)	(0.2)	(0.3)	(0.8)	(3.5)			
Unknown		385	446	853	240	0	0	0	0
(%)		(2.5)	(5.4)	(3.3)	(4.1)				
Not Reported		776	534	1,434	310	34	0	1	0

* Institutions reporting estimated data excluded

** Twenty-six institutions did not report separate generic and RN baccalaureate race/ethnicity data

6. Race/Ethnicity of Enrolled Students, 1990-91 and 1991-92

Table 15 summarizes the race/ethnicity distribution in various types of programs from schools reporting in both 1990-91 and 1991-92. Overall, there is little change in the proportion of racial and ethnic categories over the two-year period. One exception, however, is the apparent increase in the number of non-resident alien students enrolled in master's programs. It is hypothesized that this apparent increase is artificial as 1991 was the first year that this mutually exclusive category was formally introduced into the survey.

Table 15. Type of Program by Race/Ethnicity and the Number of Non-Resident Alien Enrolled Students in the Same Schools Reporting in 1990-91 and 1991-92*

Program Type/Ethnicity		Number of Programs Reporting	1990-91 Students Number	(%)	1991-92 Students Number	(%)
Baccalaureate						
RN		296				
	Asian		311	(1.8)	368	(2.1)
	Black		1,491	(8.6)	1,469	(8.6)
	Native American		144	(0.8)	83	(0.5)
	Hispanic		379	(2.2)	377	(2.2)
	White		14,579	(84.5)	14,380	(83.8)
	Non-Resident Alien		147	(0.9)	131	(0.8)
	Unknown		199	(1.2)	344	(2.0)
Graduate						
Master's		182				
	Asian		507	(2.5)	550	(2.6)
	Black		1090	(5.5)	1109	(5.3)
	Native American		73	(0.4)	73	(0.3)
	Hispanic		377	(1.9)	348	(1.7)
	White		17,813	(89.2)	17,981	(85.5)
	Non-Resident Alien		69	(0.3)	246	(1.2)
	Unknown		48	(0.2)	710	(3.4)
Doctoral		48				
	Asian		69	(2.8)	62	(2.5)
	Black		106	(4.3)	103	(4.2)
	Native American		11	(0.4)	13	(0.5)
	Hispanic		60	(2.4)	40	(1.6)
	White		2,130	(86.2)	2,049	(83.0)
	Non-Resident Alien		49	(2.1)	66	(2.7)
	Unknown		45	(1.8)	137	(5.5)

Table 15, continued Type of Program by Race/Ethnicity and the Number of Non-Resident Alien Enrolled Students in the Same Schools Reporting in 1990-91 and 1991-92*

Program Type/Ethnicity		Number of Programs Reporting	1990-91 Students Number	(%)	1991-92 Students Number	(%)
Postdoctoral		3				
	Asian		0		0	
	Black		0		1	(7.1)
	Native American		0		0	
	Hispanic		0		0	
	White		7	(87.5)	13	(92.9)
	Non-Resident Alien		0		0	
	Unknown		1	(12.5)	0	
Generic Master's		7				
	Asian		4	(1.3)	10	(2.3)
	Black		5	(1.6)	11	(2.4)
	Native American		2	(0.7)	5	(1.1)
	Hispanic		2	(0.7)	2	(0.5)
	White		288	(95.4)	407	(92.7)
	Non-Resident Alien		1	(0.3)	2	(0.5)
	Unknown		0		2	(0.5)
Nursing Doctorate		1				
	Asian		0		5	(7.8)
	Black		0		6	(9.4)
	Native American					
	Hispanic		3	(7.7)	1	(1.6)
	White		36	(92.3)	52	(81.2)
	Non-Resident Alien		0		0	
	Unknown		0		0	

* Institutions that reported estimated race/ethnicity data are excluded

7. Two-Year Enrollment and Graduation Changes by Region

Two-year enrollment and graduation data were also stratified by region of the country in which the reporting institution was located. Enrollment in RN baccalaureate programs decreased in the North Atlantic and the Midwest (Table 16). Total enrollment and graduations in master's programs increased in all regions of the country. Total enrollment in doctoral programs increased in the North Atlantic, but declined in all other regions of the country. However, graduations in doctoral programs increased in all regions.

Table 16.

Enrollment and Graduation Changes in the Same Schools Reporting in
1990-91 and 1991-92 by Program Type and Region

Program Type Reporting		Number of Programs	1990-91 Students	1991-92 Students	Percent Change
RN Baccalaureate					
North Atlantic	Full-time	96	1,110	1,006	-9.37
	Part-time	106	<u>9,515</u>	<u>8,213</u>	-13.68
	TOTAL		10,625	9,219	-13.23
	Graduates*	106	1,982	2,094	5.65
Midwestern	Full-time	107	1,527	1,530	0.20
	Part-time	112	<u>7,711</u>	<u>6,934</u>	-10.08
	TOTAL		9,238	8,464	-8.38
	Graduates*	119	2,619	2,694	2.86
Southern	Full-time	125	1,647	1,568	-4.80
	Part-time	125	<u>4,850</u>	<u>4,943</u>	1.92
	TOTAL		6,497	6,511	0.21
	Graduates*	128	2,326	2,274	-2.24
Western	Full-time	44	1,080	1,373	27.13
	Part-time	43	<u>1,257</u>	<u>1,127</u>	-10.34
	TOTAL		2,337	2,500	6.97
	Graduates*	47	1,117	881	-21.13
Master's					
North Atlantic	Full-time	52	1,148	1,161	1.13
	Part-time	62	<u>5,399</u>	<u>5,794</u>	7.32
	TOTAL		6,547	6,955	6.23
	Graduates	60	1,733	1,761	1.62
Midwestern	Full-time	49	1,224	1,095	-10.54
	Part-time	52	<u>4,759</u>	<u>4,943</u>	3.87
	TOTAL		5,983	6,038	0.92
	Graduates	52	1,489	1,545	3.76
Southern	Full-time	61	1,749	1,950	11.49
	Part-time	65	<u>5,148</u>	<u>5,226</u>	1.51
	TOTAL		6,897	7,176	4.05
	Graduates	64	1,743	1,853	6.31
Western	Full-time	30	1,270	1,451	14.25
	Part-time	31	<u>1,640</u>	<u>1,652</u>	0.73
	TOTAL		2,910	3,103	6.63
	Graduates	29	765	846	10.59

Table 16, continued Enrollment and Graduation Changes in the Same Schools Reporting in 1990-91 and 1991-92 by Program Type and Region

Program Type		Number of Programs Reporting	1990-91 Students	1991-92 Students	Percent Change
Doctoral					
North Atlantic	Full-time	12	204	185	-9.31
	Part-time	11	<u>441</u>	<u>575</u>	30.38
	TOTAL		645	760	17.83
	Graduates	12	67	72	7.46
Midwestern	Full-time	16	276	258	-6.52
	Part-time	15	<u>390</u>	<u>403</u>	3.33
	TOTAL		666	661	-0.75
	Graduates	16	61	87	42.62
Southern	Full-time	17	312	337	8.01
	Part-time	17	<u>577</u>	<u>501</u>	-13.17
	TOTAL		889	838	-5.74
	Graduates	17	107	125	16.82
Western	Full-time	8	314	287	-8.60
	Part-time	6	<u>115</u>	<u>134</u>	16.52
	TOTAL		429	421	-1.86
	Graduates	8	52	63	21.15

* Twenty programs that did not report separate generic and RN graduation data in 1991-92 and their matched 1990-91 programs are not included. Therefore, the number of graduates for both years is underreported.

8. Two-Year Enrollment and Graduation Changes by Type of Institutional Sponsorship

Table 17 summarizes the two-year enrollment data by type of institutional sponsorship. RN baccalaureate student enrollment increased slightly in private/secular and private/religious institutions. Master's student enrollment increased, regardless of the type of institutional sponsorship and graduations increased in public and private/secular schools. Doctoral student enrollment in public institutions showed little change, but increased in private/secular and private/religious schools. Doctoral graduations increased in all three categories of institutional sponsorship.

Table 17.

Enrollment and Graduation Changes in the Same Schools Reporting in
1990-91 and 1991-92 by Program Type and Institutional Sponsorship

Program Type		Number of Programs Reporting	1990-91 Students	1991-92 Students	Percent Change
RN Baccalaureate					
Public	Full-time	212	3,273	3,094	- 5.47
	Part-time	213	<u>13,670</u>	<u>11,453</u>	-16.22
	TOTAL		16,943	14,547	-14.14
	Graduates*	219	5,062	5,216	3.04
Private/ Secular	Full-time	50	954	1,238	29.77
	Part-time	58	<u>3,808</u>	<u>3,863</u>	1.44
	TOTAL		4,757	5,101	7.23
	Graduates*	57	1,331	930	-30.13
Private/ Religious	Full-time	109	1,131	1,138	0.62
	Part-time	115	<u>5,855</u>	<u>5,901</u>	0.79
	TOTAL		6,986	7,039	0.76
	Graduates*	123	1,641	1,785	8.77
Master's					
Public	Full-time	133	4,055	4,130	1.85
	Part-time	144	<u>11,422</u>	<u>11,719</u>	2.60
	TOTAL		15,477	15,849	2.40
	Graduates	139	3,773	3,999	5.99
Private/ Secular	Full-time	27	811	888	9.49
	Part-time	32	<u>3,380</u>	<u>3,511</u>	3.88
	TOTAL		4,191	4,399	4.96
	Graduates	32	1,214	1,268	4.45
Private/ Religious	Full-time	32	525	639	21.71
	Part-time	34	<u>2,144</u>	<u>2,385</u>	11.24
	TOTAL		2,669	3,024	13.30
	Graduates	34	743	738	-0.67

Table 17, continued

Enrollment and Graduation Changes in the Same Schools Reporting in 1990-91 and 1991-92 by Program Type and Institutional Sponsorship

Program Type		Number of Programs Reporting	1990-91 Students	1991-92 Students	Percent Change
Doctoral					
Public	Full-time	39	856	846	-1.17
	Part-time	36	<u>963</u>	<u>963</u>	0.00
	TOTAL		1,819	1,809	-0.55
	Graduates	39	193	237	22.80
Private/ Secular	Full-time	9	202	151	-7.62
	Part-time	9	<u>467</u>	<u>568</u>	21.63
	TOTAL		669	719	7.47
	Graduates	9	71	84	18.31
Private/ Religious	Full-time	5	48	70	45.83
	Part-time	4	<u>93</u>	<u>82</u>	-11.83
	TOTAL		141	152	7.80
	Graduates	5	23	26	13.04

* Twenty programs that did not report separate generic and RN graduation data in 1991-92 and their matched 1990-91 programs are not included. Therefore, the number of graduates for both years is underreported.

9. Two-Year Enrollment and Graduation Changes by University or Four-Year College

RN baccalaureate enrollment decreased in both universities and four-year colleges (Table 18). Master's enrollment increased slightly in universities and decreased slightly in four-year colleges.

Table 18. Enrollment and Graduation Changes in the Same Schools Reporting in 1990-91 and 1991-92 by Program Type and University or Four-Year College

Program Type		Number of Programs Reporting	1990-91 Students	1991-92 Students	Percent Change
RN Baccalaureate					
University	Full-time	249	4,014	4,249	5.85
	Part-time	251	<u>14,635</u>	<u>13,210</u>	-9.74
	TOTAL		18,649	17,459	-6.38
	Graduates*	256	5,798	5,717	-1.40
Four-Year College	Full-time	118	1,253	1,156	-7.74
	Part-time	130	<u>7,739</u>	<u>7,221</u>	-6.69
	TOTAL		8,992	8,377	-6.84
	Graduates*	139	1,947	1,853	-4.83
Master's					
University	Full-time	175	5,097	5,357	5.10
	Part-time	186	<u>14,955</u>	<u>15,684</u>	4.87
	TOTAL		20,052	21,041	4.93
	Graduates	181	5,324	5,556	4.36
Four-Year College	Full-time	14	275	285	3.64
	Part-time	19	<u>1,753</u>	<u>1,684</u>	-3.94
	TOTAL		2,028	1,969	-2.91
	Graduates	20	376	376	0.00
Doctoral					
University	Full-time	53	1,106	1,067	-3.53
	Part-time	49	<u>1,523</u>	<u>1,613</u>	5.91
	TOTAL		2,629	2,680	1.94
	Graduates	53	287	347	20.91

* Twenty programs that did not report separate generic and RN graduation data in 1991-92 and their matched 1990-91 programs are not included. Therefore, the number of graduates for both years is underreported.

10. Five-Year Enrollment and Graduation Changes, 1987-1991

To examine changes in enrollment over a five-year period, data from a cohort of institutions reporting for years 1987 through 1991 were analyzed. In general, RN baccalaureate enrollment has decreased since 1988 and graduations have decreased since 1989, although these changes are not statistically significant (Appendix C and Figure 1). Part-time master's enrollment show steady increases for the five-year period with an increase of 896 students per year ($p=0.006$) (Appendix D and Figure 2). Likewise, both full-time and part-time doctoral enrollment and graduations demonstrate linear relationships, increasing by 51 ($p=0.03$), 92 ($p=0.01$), and 27 ($p=0.02$) students per year, respectively (Appendix E and Figure 3).

Figure 1. RN Baccalaureate Enrollment Changes in 279 Schools, 1987-1991

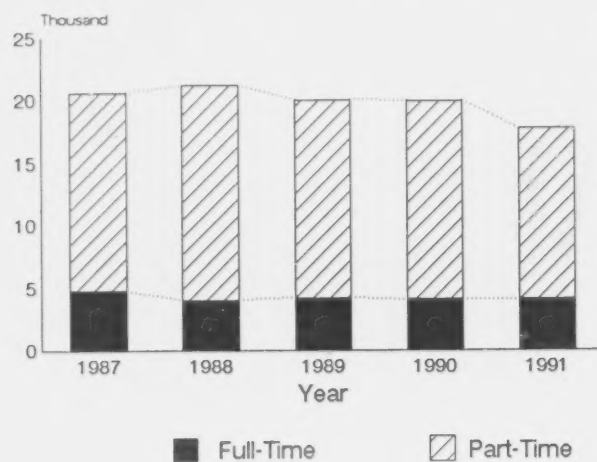
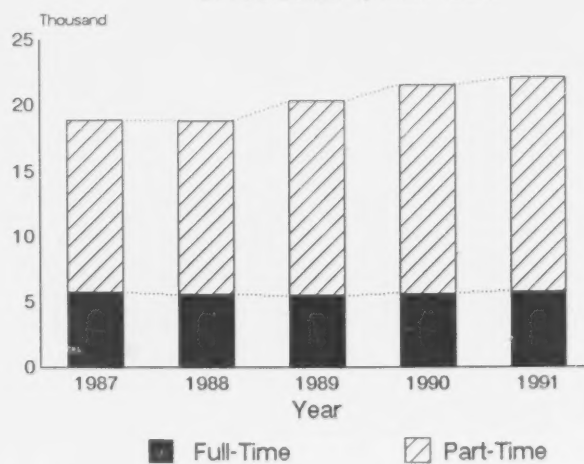
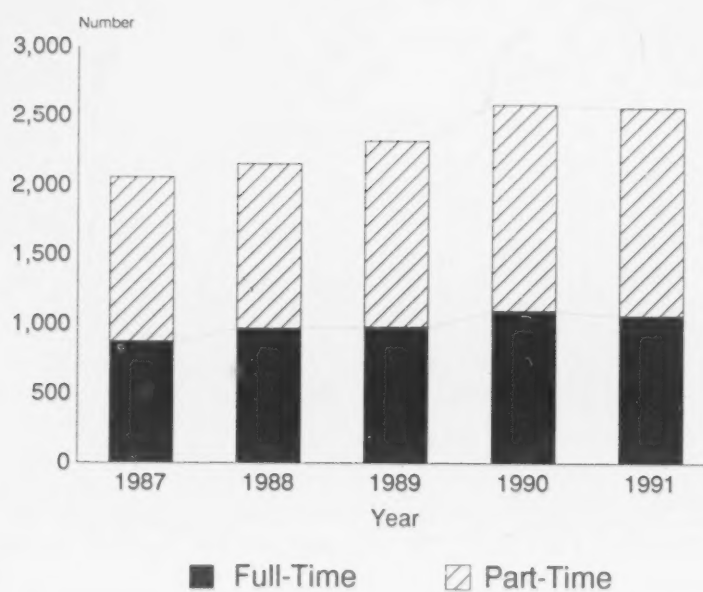


Figure 2. Master's Enrollment Changes in 193 Schools, 1987-1991*



* Excludes MSN for non-nursing college graduates (generic masters)

Figure 3. Doctoral Enrollment Changes in 54 Schools, 1987-1991



APPENDIX A

Definitions for the Institutional Data, Enrollment and Graduations Surveys

ACADEMIC HEALTH CENTER:

As defined by the Association of Academic Health Centers (AAHC), an academic health center is "an institution that includes a school of medicine, a teaching hospital, and at least one additional health education program" - in our case, nursing. Each health school generally maintains separate identity and autonomy.

LPN (LVN) to BSN; LPN (LVN) to MSN:

Programs that admit licensed practical nurses and award a baccalaureate or master's degree in nursing.

GENERIC BACCALAUREATE:

A program of instruction that admits students with no previous nursing education and requires at least four but not more than five academic years of full-time equivalent college academic work, the completion of which results in a baccalaureate nursing degree.

RN to BSN:

A program that admits registered nurses with associate degrees or diplomas in nursing and awards a baccalaureate degree in nursing.

RN to MSN:

A program that admits registered nurses without a baccalaureate degree in nursing and awards a master's degree in nursing.

RN to BSN EXTERNAL DEGREE BACCALAUREATE:

A degree awarded by transcript evaluation or academically acceptable cognitive and performance examinations, without residency and classroom attendance requirements.

MASTER OF SCIENCE IN NURSING:

A program of instruction that admits students with baccalaureate degrees in nursing and, at completion, awards a master of science in nursing.

"ACCELERATED" OPTION OR PATHWAY:

Programs that accomplish the programmatic objectives in a shorter time frame than the traditional program, usually through a combination of "bridge"/transition courses and core courses.

BSN FOR NONNURSING COLLEGE GRADUATES:

A program that admits students with baccalaureate degrees and with no previous nursing education and, at completion, awards a baccalaureate degree in nursing.

MSN FOR NONNURSING COLLEGE GRADUATES (Generic Master's):

A program that admits students with baccalaureate degrees and with no previous nursing education and, at completion, prepares them for entry into the profession and awards a master's degree in nursing.

MSN/MBA, MSN/MPH, MSN/MHA, MSN/MPA:

Dual degree programs that admit registered nurses with a baccalaureate degree in nursing and award a master's degree in nursing and a Master of Business Administration, Master of Public Health, Master of Hospital Administration, or Master of Public Administration.

DOCTOR OF NURSING (ND):

A generic doctoral program with a clinical focus primarily designed for nonnursing baccalaureate-prepared college graduates.

DOCTORAL:

A program of instruction requiring at least three academic years of full-time equivalent academic work beyond the baccalaureate in nursing, the completion of which results in a doctoral degree.

POSTDOCTORAL:

A program environment for multidisciplinary research training involving more than one unit of a university, and a recruitment plan that will attract the most highly qualified candidates (individuals must have received doctoral degree) from throughout the nation, and the nursing unit has the ability to demonstrate the graduates of the program remain active in research. From *NIH Guide for Grants and Contracts*, Vol 16, No. 1, January 9, 1977.

PART-TIME FACULTY:

Include all persons who hold a faculty appointment and receive some compensation from your school of nursing but are not considered full-time faculty. Do **not** include adjunct faculty unless they receive some compensation as above. Give number of individuals, **NOT** FTE. Do **not** include teaching assistants or research assistants.

ENROLLMENTS:

The number of students enrolled according to the official fall enrollment figures of the institution. Include all transfers and readmissions and exclude prenursing students. Use institutional definitions of full- and part-time.

GRADUATIONS:

The number of students that met graduation criteria and graduated from September 1, 1990 through August 31, 1991.

APPENDIX B

List of Institutions That Provided Enrollment and/or Graduation Data for the 1991-92 Survey

NORTH ATLANTIC REGION

CONNECTICUT

Fairfield University
Southern Connecticut State University
St. Joseph College
University of Connecticut
University of Hartford
Western Connecticut State University
Yale University

DELAWARE

University of Delaware
Wilmington College

DISTRICT OF COLUMBIA

Catholic University of America
Georgetown University
Howard University

MAINE

Husson College/E. Maine Medical Center
St. Joseph's College
University of Maine
University of Southern Maine
Westbrook College

MASSACHUSETTS

American International College
Anna Maria College
Assumption College
Atlantic Union College
Boston College
College of Our Lady of the Elms
Curry College
Fitchburg State College
Framingham State College
Massachusetts College of Pharmacy/
Allied Health Sciences
MGH Institute of Health Professions
Northeastern University
Regis College
Salem State College
University of Massachusetts-Amherst
University of Massachusetts-Boston
University of Massachusetts-Dartmouth
University of Massachusetts-Lowell
University of Massachusetts Medical
Center

NEW HAMPSHIRE

Colby-Sawyer College
Saint Anselm College
University of New Hampshire

NEW JERSEY

Bloomfield College
College of St. Elizabeth

NEW JERSEY, CONTINUED

Fairleigh Dickinson University
Felician College
Jersey City State College
Kean College of New Jersey
Monmouth College
Rutgers, The State Univ. of New Jersey
Rutgers, The State Univ. of NJ-Camden
Saint Peter's College
Seton Hall University
Thomas A. Edison State College
Trenton State College
William Paterson College

NEW YORK

Adelphi University
City College of CUNY
College of Mount Saint Vincent
College of New Rochelle
Columbia University Teachers College
Columbia University
D'Youville College
Daemen College
Dominican College of Blauvelt
Elmira College
Hartwick College
Hunter College of CUNY
Lehman College of CUNY
Long Island University
Long Island Univ.-C.W. Post Campus
Medgar Evers College of CUNY
Molloy College
New York University
Niagara University
Pace University
Roberts Wesleyan College
Russell Sage College
St. John Fisher College
St. Joseph's College
SUNY College at Brockport
SUNY College at Plattsburgh
SUNY Health Science Center/Brooklyn
SUNY Health Science Center/Syracuse
SUNY Inst. of Tech. at Utica/Rome
SUNY/Binghamton
SUNY/Buffalo
SUNY/College at New Paltz
SUNY/Stony Brook
Syracuse University
University of Rochester
University of the State of New York
Wagner College
York College of CUNY

PENNSYLVANIA

Bloomsburg University
California University of Pennsylvania
Carlów College
Cedar Crest College
East Stroudsburg University
Eastern College
Edinboro University of Pennsylvania
Gannon University
Gwynedd-Mercy College
Hahnemann University
Holy Family College
Immaculata College
Indiana University of Pennsylvania
La Salle University
Lycoming College
Marywood College
Messiah College
Millersville University
Neumann College
Pennsylvania State University
Saint Francis College
Slippery Rock University
Temple University
Thiel College
Thomas Jefferson University
University of Pennsylvania
University of Pittsburgh
University of Scranton
Villanova University
Waynesburg College
West Chester University
Widener University
Wilkes University
York College of Pennsylvania

RHODE ISLAND

Rhode Island College
University of Rhode Island

VERMONT

University of Vermont
Vermont College of Norwich Univ.

MIDWESTERN REGION**ILLINOIS**

Aurora University
Barat College & University of Health Sciences
Bradley University
Chicago State University
Concordia-West Suburban College of Nursing
Culver Stockton-Blessing College of Nursing
DePaul University
Elmhurst College
Governors State University
Illinois Benedictine College
Illinois Wesleyan University
Lewis University
Loyola University of Chicago

ILLINOIS, CONTINUED

McKendree College
Mennonite College of Nursing
• Millikin University
• North Park College
Northern Illinois University
Olivet Nazarene University
Rockford College
Rush University
Sangamon State University
Southern Illinois University
St. Joseph College of Nursing
St. Xavier College
Trinity Christian College
University of Illinois

INDIANA

Anderson University
Ball State University
Bethel College of Indiana
DePauw University
Goshen College
Indiana State University
Indiana University-Purdue University
Indiana University
Marian College
Purdue University
Purdue University-Calumet Campus
Saint Francis College
Saint Mary's College
University of Evansville
The University of Indianapolis
University of Southern Indiana
Valparaiso University

IOWA

Briar Cliff College
Coe College
Drake University
Grand View College
Iowa Wesleyan College
Luther College
Morningside College
Mount Mercy College
Teikyo Marycrest College
University of Iowa

KANSAS

Fort Hays State University
Kansas Newman College
Mid-America Nazarene College
Pittsburg State University
St. Mary of the Plains College
The University of Kansas
The Wichita State University
Washburn University of Topeka

MICHIGAN

Andrews University
Ferris State University
Grand Valley State University
Hope/Calvin Colleges

MICHIGAN, CONTINUED

Lake Superior State University
Madonna University
Michigan State University
Northern Michigan University
Oakland University
Saginaw Valley State University
University of Detroit Mercy
University of Michigan
Wayne State University

MINNESOTA

Augsburg College
Bemidji State University
Bethel College of Minnesota
College of St. Scholastica
Metropolitan State University
Minnesota Intercollegiate Nursing Consortium
Moorhead State University
The College of St. Catherine
University of Minnesota
Winona State University

MISSOURI

Avila College
Central Methodist College
Graceland College
Missouri Western State College
Northeast Missouri State University
Research College of Nursing
Saint Louis University
Southeast Missouri State University
Southwest Baptist University
Southwest Missouri State University
University of Missouri-Columbia
University of Missouri-Kansas City
University of Missouri-St. Louis
Webster University

NEBRASKA

Bishop Clarkson College
Creighton University
Midland Lutheran College
Nebraska Methodist College
University of Nebraska Medical Center
Union College

NORTH DAKOTA

Jamestown College
Medcenter One College of Nursing
Minot State University
Tri-College University
University of Mary
University of North Dakota

OHIO

Ashland University
Capital University
Case Western Reserve University
Cedarville College
Cleveland State University
College of Mount St. Joseph
Franklin University

OHIO, CONTINUED

Kent State University
Lourdes College
Malone College
Medical College of Ohio
Miami University
Ohio State University
Ohio University
Ohio Wesleyan University
University of Akron
University of Cincinnati
Ursuline College
Walsh College
Wright State University
Xavier University
Youngstown State University

SOUTH DAKOTA

Augustana College
South Dakota State University

WISCONSIN

Alverno College
Cardinal Stritch College
Carroll College
Concordia University Wisconsin
Edgewood College
Marian College of Fond du Lac
Marquette University
Silver Lake College
University of Wisconsin-Eau Claire
University of Wisconsin-Green Bay
University of Wisconsin-Madison
University of Wisconsin-Milwaukee
University of Wisconsin-Oshkosh
Viterbo College

SOUTHERN REGION**ALABAMA**

Auburn University
Auburn University at Montgomery
Jacksonville State University
Oakwood College
Samford University
Troy State University
Tuskegee University
The University of Alabama
University of Alabama at Birmingham
University of Alabama-Huntsville
University of North Alabama
University of South Alabama

ARKANSAS

Arkansas State University
Arkansas Tech University
Harding University
Henderson State University
University of Arkansas for Medical Sciences
University of Arkansas at Pine Bluff
University of Central Arkansas

FLORIDA

Barry University
Florida A & M University
Florida Atlantic University
Florida Southern College
Florida State University
Jacksonville University
Pensacola Christian College
University of Central Florida
University of Florida
University of Miami
University of North Florida
University of South Florida
University of Tampa
University of West Florida

GEORGIA

Brenau College
Clayton State College
Emory University
Georgia College
Georgia Southern University
Georgia Southwestern College
Georgia State University
Kennesaw State College
Medical College of Georgia
North Georgia College
Valdosta State College

KENTUCKY

Bellarmine College
Berea College
Eastern Kentucky University
Kentucky Wesleyan College
Morehead State University
Murray State University
Northern Kentucky University
Spalding University
University of Kentucky
University of Louisville
Western Kentucky University

LOUISIANA

Grambling State University
Louisiana College
Louisiana State University Medical Ctr.
Loyola University of New Orleans
McNeese State University
Nicholls State University
Northeast Louisiana University
Our Lady of Holy Cross College
Southeastern Louisiana University
Southern University and A & M College
University of Southwestern Louisiana

MARYLAND

Bowie State University
College of Notre Dame of Maryland
Coppin State College
Johns Hopkins University
Salisbury State University
Towson State University

MARYLAND, CONTINUED

University of Maryland-Baltimore

MISSISSIPPI

Alcorn State University
Delta State University
Mississippi College
Mississippi University for Women
University of Southern Mississippi
University of Mississippi

NORTH CAROLINA

Barton College
Duke University
East Carolina University
Gardner-Webb College
North Carolina A&T State University
Queens College
University of North Carolina-Chapel Hill
University of North Carolina-Charlotte
University of North Carolina-Greensboro
University of North Carolina-Wilmington
Western Carolina University

OKLAHOMA

Central State University
East Central University
Langston University
Northeastern State University
Northwestern Oklahoma State University
Oklahoma City University
Oral Roberts University
Southern Nazarene University
Southwestern Oklahoma State University
University of Oklahoma
The University of Tulsa

PUERTO RICO

University of Puerto Rico
University of Puerto Rico-Mayaguez

SOUTH CAROLINA

Clemson University
Lander College
Medical University of South Carolina
South Carolina State College
University of South Carolina
University of South Carolina at Aiken
University of South Carolina-Spartanburg

TENNESSEE

Austin Peay State University
Belmont College
Carson-Newman College
East Tennessee State University
Memphis State University
Middle Tennessee State University
Tennessee State University
Tennessee Technological University
Union University
University of Tennessee-Chattanooga
University of Tennessee-Knoxville
University of Tennessee at Martin
University of Tennessee-Memphis

TENNESSEE, CONTINUED

Vanderbilt University

TEXAS

Abilene Intercollegiate School of Nursing
 Baylor University
 Corpus Christi State University
 Houston Baptist University
 Incarnate Word College
 Midwestern State University
 Prairie View A & M University
 Southwestern Adventist College
 Texas Christian University
 Texas Tech University Health Sci. Ctr.
 Texas Woman's University
 University of Mary Hardin-Baylor
 Univ. of Texas Health Science Center-Houston
 Univ. of Texas Health Science Center-
 San Antonio
 University of Texas-Arlington
 University of Texas-Austin
 University of Texas-El Paso
 University of Texas-Galveston
 University of Texas-Pan American
 University of Texas-Tyler

VIRGINIA

Christopher Newport College
 Eastern Mennonite College
 George Mason University
 James Madison University
 Liberty University
 Lynchburg College
 Marymount University
 Norfolk State University
 Old Dominion University
 Radford University
 Shenandoah University
 University of Virginia
 Virginia Commonwealth University

VIRGIN ISLANDS

University of the Virgin Islands

WEST VIRGINIA

Alderson-Broadus College
 Davis & Elkins College
 Marshall University
 University of Charleston
 West Liberty State College
 West Virginia University
 West Virginia Wesleyan College

WESTERN REGION**ALASKA**

University of Alaska Anchorage

ARIZONA

Arizona State University
 Grand Canyon University
 Northern Arizona University
 University of Arizona

ARIZONA, CONTINUED

University of Phoenix

CALIFORNIA

Azusa Pacific University
 California State University-Bakersfield
 California State University-Chico
 California State University-Fresno
 California State University-Fullerton
 California State University-Hayward
 California State University-Long Beach
 California State University-Sacramento
 California State University-San Bernardino
 California State University-Stanislaus
 Dominican College of San Rafael
 Holy Names College
 Humboldt State University
 Loma Linda University
 Mt. St. Mary's College
 San Francisco State University
 Sonoma State University
 University of California-Los Angeles
 University of California-San Francisco
 University of San Diego
 University of San Francisco

COLORADO

Metropolitan State College
 Regis University
 Univ. of Colorado Health Science Center
 University of Northern Colorado
 University of Southern Colorado

HAWAII

University of Hawaii at Manoa

IDAHO

Boise State University
 Idaho State University
 Lewis Clark State College

MONTANA

Montana State University
 Northern Montana College

NEVADA

University of Nevada-Las Vegas
 University of Nevada-Reno

NEW MEXICO

New Mexico State University
 University of New Mexico

OREGON

Linfield College
 Oregon Health Sciences University
 Oregon Institute of Technology
 Southern Oregon State College
 University of Portland

UTAH

Brigham Young University
 University of Utah
 Weber State University
 Westminster College

WASHINGTON

Gonzaga University

WASHINGTON, CONTINUED

Intercollegiate Center for Nursing Education

Pacific Lutheran University

Saint Martin's College

Seattle Pacific University

Seattle University

University of Washington

WYOMING

University of Wyoming

APPENDIX C

FIVE-YEAR RN BACCALAUREATE ENROLLMENT AND GRADUATION CHANGES IN THE SAME 279 SCHOOLS BY REGION AND STUDENT STATUS

	YEAR					CHANGE PER YEAR	SIGNIFICANCE
	1987-88	1988-89	1989-90	1990-91	1991-92		
	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	P-VALUE
NORTH ATLANTIC							
PUBLIC							
FULL-TIME	695	535	667	480	403	- 64	0.09
PART-TIME	3611	3529	3678	3599	2431	- 229	0.20
GRADUATES	772	767	949	734	850	12	0.72
SECULAR							
FULL-TIME	194	177	214	168	274	15	0.32
PART-TIME	1542	1772	1690	1946	1945	98	0.04
GRADUATES	424	368	393	412	407	1	0.91
RELIGIOUS							
FULL-TIME	103	114	93	227	114	13	0.52
PART-TIME	766	1281	895	978	1038	24	0.75
GRADUATES	217	226	274	212	281	11	0.34
MIDWEST							
PUBLIC							
FULL-TIME	1144	688	676	778	800	- 60	0.40
PART-TIME	3648	3664	3660	3839	2870	- 138	0.31
GRADUATES	1309	1266	1395	1332	1391	23	0.22
SECULAR							
FULL-TIME	45	45	63	137	9	2	0.91
PART-TIME	844	625	643	522	365	- 106	0.01
GRADUATES	141	181	177	193	171	7	0.30
RELIGIOUS							
FULL-TIME	185	269	299	145	244	- 0.6	0.98
PART-TIME	1105	1835	1306	1093	1079	- 79	0.52
GRADUATES	473	475	461	426	440	- 11	0.07
SOUTH							
PUBLIC							
FULL-TIME	1394	1352	1356	1078	962	- 113	0.03
PART-TIME	2856	2745	2550	2687	2620	- 53	0.17
GRADUATES	1395	1434	1449	1649	1558	54	0.09
SECULAR							
FULL-TIME	12	10	6	14	7	- 0.6	0.64
PART-TIME	80	135	186	189	273	44	0.006
GRADUATES	56	26	47	33	59	1	0.81
RELIGIOUS							
FULL-TIME	84	71	37	18	57	- 11	0.24
PART-TIME	502	513	461	362	320	- 51	0.02
GRADUATES	169	137	110	109	81	- 20	0.006
WEST							
PUBLIC							
FULL-TIME	372	386	409	409	360	- 0.1	0.99
PART-TIME	569	583	657	601	582	4	0.75
GRADUATES	334	393	327	378	378	23	0.20
SECULAR							
FULL-TIME	490	379	336	547	847	88	0.19
PART-TIME	238	41	35	17	11	- 47	0.11
GRADUATES	174	186	335	457	130	18	0.73
RELIGIOUS							
FULL-TIME	96	114	62	110	62	- 7	0.43
PART-TIME	82	109	52	34	56	- 13	0.21
GRADUATES	106	190	92	61	69	- 20	0.26
TOTAL							
FULL-TIME	4814	4140	4221	4111	4139	- 137	0.16
PART-TIME	15843	16832	15843	15867	13590	- 547	0.16
TOTAL	19346	20972	18387	18616	16525		
GRADUATES	5570	5649	6009	5996	5892	99	0.12

APPENDIX D

FIVE-YEAR MASTER'S ENROLLMENT AND GRADUATION CHANGES IN THE SAME 193 SCHOOLS BY REGION AND STUDENT STATUS*

	YEAR					CHANGE PER YEAR	SIGNIFICANCE
	1987-88	1988-89	1989-90	1990-91	1991-92		
	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	P-VALUE
NORTH ATLANTIC							
PUBLIC							
FULL-TIME	527	461	432	341	387	- 40	0.04
PART-TIME	1682	1788	1849	1915	1965	69	0.001
GRADUATES	445	494	476	509	538	20	0.03
SECULAR							
FULL-TIME	920	594	603	606	592	- 64	0.18
PART-TIME	1851	1845	2231	2367	2521	186	0.008
GRADUATES	854	785	748	878	880	14	0.52
RELIGIOUS							
FULL-TIME	156	177	156	181	148	- 1	0.83
PART-TIME	636	657	663	771	889	62	0.03
GRADUATES	286	306	260	298	239	- 10	0.30
MIDWEST							
PUBLIC							
FULL-TIME	791	806	712	955	826	22	0.51
PART-TIME	3097	2857	3527	3456	3578	156	0.11
GRADUATES	901	862	997	1033	1144	66	0.02
SECULAR							
FULL-TIME	204	170	231	150	141	- 15	0.27
PART-TIME	269	298	190	347	337	- 18	0.43
GRADUATES	128	285	165	185	154	- 5	0.84
RELIGIOUS							
FULL-TIME	136	114	113	86	98	- 10	0.05
PART-TIME	636	688	662	652	687	7	0.43
GRADUATES	213	156	201	186	180	- 4	0.67
SOUTH							
PUBLIC							
FULL-TIME	1364	1403	1492	1489	1671	70	0.02
PART-TIME	3405	3245	3780	4286	4206	264	0.04
GRADUATES	1341	1403	1445	1431	1485	32	0.02
SECULAR							
FULL-TIME	115	80	105	97	134	5	0.47
PART-TIME	205	310	306	266	337	22	0.21
GRADUATES	68	77	106	126	167	25	0.004
RELIGIOUS							
FULL-TIME	136	126	116	121	116	- 4	0.07
PART-TIME	208	203	165	219	211	2	0.79
GRADUATES	59	62	78	83	83	6.9	0.02
WEST							
PUBLIC							
FULL-TIME	1274	1561	1412	1437	1374	7.6	0.85
PART-TIME	888	1138	1144	1265	1296	94	0.02
GRADUATES	788	796	710	794	840	10	0.57
SECULAR							
FULL-TIME	45	43	84	67	186	31	0.09
PART-TIME	2	7	5	75	31	13	0.24
GRADUATES	5	2	5	5	23	4	0.16
RELIGIOUS							
FULL-TIME	104	55	50	79	107	4	0.69
PART-TIME	185	176	234	224	171	2	0.86
GRADUATES	83	82	75	82	95	2	0.36
TOTAL							
FULL-TIME	5772	5590	5506	5621	5780	5	.92
PART-TIME	13064	13212	14756	15847	16229	896	0.006
TOTAL	18836	18802	20262	21468	22009		
GRADUATES	5171	5310	5266	5610	5828	161	0.02

*Does not include generic master's

APPENDIX E

FIVE-YEAR DOCTORAL ENROLLMENT AND GRADUATION CHANGES IN THE SAME 52 SCHOOLS BY REGION AND STUDENT STATUS

	YEAR					CHANGE PER YEAR	SIGNIFICANCE
	1987-88	1988-89	1989-90	1990-91	1991-92		
	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	NUMBER OF STUDENTS	P-VALUE
NORTH ATLANTIC							
PUBLIC							
FULL-TIME	12	25	21	25	22	.	.
PART-TIME	7	7	36	45	64	.	.
GRADUATES	.	.	.	2	1	.	.
SECULAR							
FULL-TIME	98	119	109	129	112	4	0.37
PART-TIME	309	320	250	322	359	10	0.49
GRADUATES	44	47	60	45	50	1	0.69
RELIGIOUS							
FULL-TIME	21	27	39	41	49	7	0.003
PART-TIME	36	45	35	37	32	2	0.37
GRADUATES	9	10	15	10	11	0.4	0.66
MIDWEST							
PUBLIC							
FULL-TIME	189	201	195	205	204	3	0.10
PART-TIME	173	205	247	264	293	30	0.001
GRADUATES	38	44	43	45	63	5	0.07
SECULAR							
FULL-TIME	38	36	52	64	37	3	0.58
PART-TIME	94	54	100	108	89	4	0.58
GRADUATES	17	16	16	16	24	1	0.25
RELIGIOUS							
FULL-TIME	.	.	2	7	17	.	.
PART-TIME	.	.	5	18	21	.	.
GRADUATES	.	.	.	.	.	.	.
SOUTH							
PUBLIC							
FULL-TIME	266	310	274	312	337	14	0.12
PART-TIME	462	455	536	577	501	20	0.27
GRADUATES	78	83	97	107	125	12	0.002
SECULAR							
FULL-TIME	.	.	.	.	.	.	.
PART-TIME	.	.	.	.	.	.	.
GRADUATES	.	.	.	.	.	.	.
RELIGIOUS							
FULL-TIME	.	.	.	.	.	.	.
PART-TIME	.	.	.	.	.	.	.
GRADUATES	.	.	.	.	.	.	.
WEST							
PUBLIC							
FULL-TIME	238	239	283	314	283	16	0.10
PART-TIME	77	73	85	77	105	6	0.15
GRADUATES	38	32	54	39	48	3	0.40
SECULAR							
FULL-TIME	.	.	.	.	.	.	.
PART-TIME	.	.	.	.	.	.	.
GRADUATES	.	.	.	.	.	.	.
RELIGIOUS							
FULL-TIME	12	12	5	.	4	.	.
PART-TIME	26	27	44	38	29	.	.
GRADUATES	.	.	1	13	15	.	.
TOTAL							
FULL-TIME	874	969	980	1097	1065	51	0.03
PART-TIME	1184	1186	1338	1486	1493	92	0.01
TOTAL	2058	2155	2318	2583	2558		
GRADUATES	224	232	286	277	337	27	0.02



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of Colleges of Nursing**

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